

TWO COMPONENT COATING COMPOSITIONS AND COATINGS PRODUCED THEREFROM

Abstract of the disclosure

5 The present invention is directed to two component coating compositions that cure under ambient conditions and more particularly to those having low VOC (volatile organic content) that are suitable for use in automotive refinish and Original Equipment Manufacturing (OEM) applications. The coating composition includes crosslinkable and crosslinking components, wherein the
10 crosslinkable component includes a low polydispersity, low molecular weight copolymer having on an average 2 to 25 functional groups, such as hydroxyl, carboxyl, acetoacetoxy, primary and secondary amine, and epoxy. The copolymer is polymerized from a monomer mixture that includes one or more non-functional acrylate monomers and one or more functional methacrylate monomers provided
15 with the functional groups. The crosslinking component includes polyisocyanate, polyamine, ketimine, melamine, epoxy, polyacid or a combination thereof. The invention is also directed to coating produced from the coating composition.